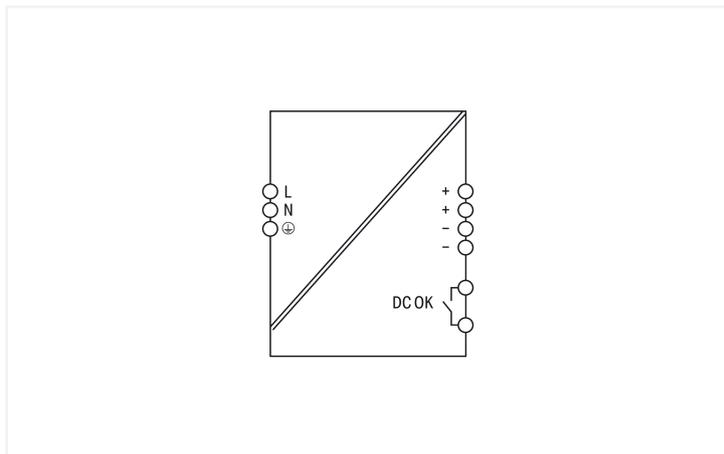


Data Sheet | Item Number: 2687-2144

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 5 A output current; DC OK contact

<https://www.wago.com/2687-2144>



Features:

- Signal output, optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot (2789-1233, not included) for WAGO marking cards (WMB) and WAGO marking strips

Technical data

Input		Output	
Phases	1	Nominal output voltage $U_{o\text{nom}}$	24 VDC (SELV)
Nominal input voltage $U_{i\text{nom}}$	1 x 100 ... 240 VAC	Output voltage range	23 ... 28 VDC (adjustable)
Input voltage range	1 x 90 ... 264 VAC	Default Setting	24 VDC
Nominal mains frequency range	50 ... 60 Hz; 0 Hz	Nominal output current $I_{o\text{nom}}$	5 A (24 VDC)
Input current I_i	≤ 0.8 A (230 VAC; nominal load); ≤ 1.5 A (100 VAC; nominal load)	Nominal output power	120 W
Inrush current	≤ 20 A (after 1 ms)	Deviation	≤ 1 %
Power factor correction (PFC)	Active	Residual ripple	≤ 75 mV (peak-to-peak)
Mains failure hold-up time	≥ 20 ms (230 VAC)	Overload behavior	Constant power up to 125 %; shutdown and automatic restart in the event of a short circuit

Signaling and Communication

Signaling	Optical status indication (overload) Optical status indication (DC OK) Digital signal output (DO)
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Efficiency/Power Losses

Power loss P_I	≤ 3 W (no load); ≤ 12 W (nominal load)
Efficiency (typ.)	90 %

Circuit Protection

Internal fuse	T 3.15 A / 250 VAC
Backup fuse (recommended)	16 A (for USA/Canada: 15 A)

Safety and protection

Isolation voltage (pri.-sec., AC)	3510 V
Isolation voltage (pri.-PE, AC)	2200 V
Isolation voltage (sec.-PE)	0.5 kVDC
Isolation voltage (sec.-signal)	0.5 kVDC
Protection class	I
Protection type	IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	$> 1,000,000$ h (per IEC 61709)

Connection Data

Connection 1	
Connection type	Input/output/signaling
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2604 Series
Solid conductor	0.2 ... 4 mm ² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 4 mm ² / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ²
Strip length	9 ... 11 mm / 0.35 ... 0.43 inches

Physical data

Width	38 mm / 1.496 inches
Height	130 mm / 5.118 inches
Depth from upper-edge of DIN-rail	130 mm / 5.118 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Fire load	0 MJ
Weight	620 g

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	-2.5 %/K, > 55 °C; -10 %/V, > 24 V
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	5000 m

Standards and Specifications

Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 UL 61010-1 UL 61010-2-201 SEMI F47 UL 121201 (HazLoc)

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4066966401080
Customs tariff number	85044083900

Product Classification

UNSPSC	39121004
ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	88b095ec-76a2-44ba-bc4f-8af04d3aa869
SCIP notification number (Belgium)	1f36d4b5-c2bd-4fa4-9ba7-fab4560274ea
SCIP notification number (Bulgaria)	ece2741c-94c2-4643-8455-4af30ed67835
SCIP notification number (Czech Republic)	cd95343d-b393-43cf-80b0-ccc5257bbfd
SCIP notification number (Denmark)	8de2a84b-c12a-4761-91dd-b119773534c8
SCIP notification number (Finland)	37dca7ef-68a8-4237-96ee-ffc69fca1b79
SCIP notification number (France)	be625ff9-61f8-44cb-a1b4-9c91e7ab498f
SCIP notification number (Germany)	Of1a79bc-42ce-497c-93aa-169b84dec80a
SCIP notification number (Hungary)	c75d9660-e9e0-4f6a-8094-a02f7eb002c5
SCIP notification number (Italy)	4058ebcb-e5d3-4e13-8a2c-bb034a513773
SCIP notification number (Netherlands)	e09550f1-21a2-4612-b815-cd116bb56de2
SCIP notification number (Poland)	42928b5b-13e1-44dc-bfe4-9af43f5d13b6
SCIP notification number (Romania)	42dd0d9d-70ff-4898-aa20-05f92774b9fb
SCIP notification number (Sweden)	d048877f-4660-48fa-8533-a6cfed8010d2

Approvals / Certificates

General approvals **Declarations of conformity and manufacturer's declarations**



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03080
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc.	UL 61010-2-201	UL-US-2218925-0_UL-CA-2218432-0

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
MFD for SEMI F47 WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA-TIONS)	UL 121201	E198726

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 2687-2144	↓

Documentation

Manual			
Power supply; Eco 2; 1-phase; 24 VDC output voltage; 5 A output current	V 1.1.1 19.03.2024	pdf 4627.56 KB	↓

Bid Text			
2687-2144		xml 7.26 KB	↓
2687-2144		docx 29.77 KB	↓

Instruction Leaflet			
Power supply; Eco 2	V 1.3.0 08.11.2022	pdf 2307.76 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 2687-2144	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marker carrier



Item No.: 2789-1233
 Marker carrier; for WMB or marking strips;
 Length: 33 mm